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L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:588966 CAPLUS

DOCUMENT NUMBER: 143:115453

TITLE: Preparation of spiropiperidines and related compounds as pesticides

INVENTOR(S): Molleyres, Louis-Pierre; Cassayre, Jerome; Cederbaum, Fredrik; Maiefisch, Peter

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 176 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005061500	A1	20050707	WO 2004-IB4083	20041209
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004303618	A1	20050707	AU 2004-303618	20041209
AU 2004303618	B2	20100805		
CA 2547814	A1	20050707	CA 2004-2547814	20041209
EP 1694677	A1	20060830	EP 2004-806330	20041209
EP 1694677	B1	20091202		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1894249	A	20070110	CN 2004-80037007	20041209
BR 2004017544	A	20070327	BR 2004-17544	20041209
JP 2007516972	T	20070628	JP 2006-543658	20041209
CN 101544640	A	20090930	CN 2009-10139118	20041209
AT 450538	T	20091215	AT 2004-806330	20041209
ES 2337693	T3	20100428	ES 2004-806330	20041209
NZ 546995	A	20100730	NZ 2004-546995	20041209
MX 2006006212	A	20060809	MX 2006-6212	20060601
ZA 2006004644	A	20071128	ZA 2006-4644	20060606
KR 2006123308	A	20061201	KR 2006-7011568	20060612
IN 2006CN02073	A	20070706	IN 2006-CN2073	20060612
US 20070135408	A1	20070614	US 2007-581176	20070129
HK 1097829	A1	20100416	HK 2007-101863	20070215
PRIORITY APPLN. INFO.:			GB 2003-28905	A 20031212
			CN 2004-80037007	A3 20041209
			WO 2004-IB4083	W 20041209

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 143:115453; MARPAT 143:115453

GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [W = (R4)n; n = 0-3; X = (CRa2)p; Z = (CRa2)q; Ra = H, halo, OH, etc.; p = 0-6; q = 0-6; Y = single bond, CO, CS, etc.; R1 = H, alkyl, alkoxy, carbonyl, etc.; R2, R3 = H, halo, CN, etc.; R4 = halo, NO2, CN, etc.; R8 = alkyl, alkenyl, alkynyl, etc.; T = 5- or 6-membered heteroarom. ring] and N-oxides were prepared. For example, N-alkylation of piperidine II with 4-chlorocinnamyl chloride afforded spiropiperidine III in 58% yield. In diamondback moth protection assays, 72-examples of compds. I at 18.2 ppm exhibited at least 80% protection after 5-days.

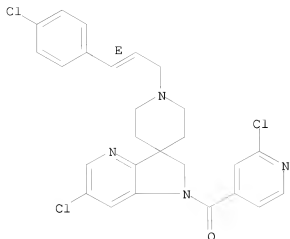
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 857730-27-9P 857730-28-0P 857730-29-1P  
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 857730-33-7P 857730-34-8P 857730-35-9P  
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 857730-39-3P 857730-40-6P 857730-41-7P  
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 857730-72-4P 857730-73-5P 857730-74-6P  
 857730-75-7P 857730-76-8P 857730-77-9P  
 857730-78-0P 857730-79-1P 857730-80-4P  
 RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);  
 SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of spiropiperidines and related compds. as pesticides)

RN 857730-03-1 CAPLUS

CN Methanone, [6'-chloro-1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydrospiro[piperidine-4,3'-(3H)pyrrolo[3,2-b]pyridin]-1'-yl](2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

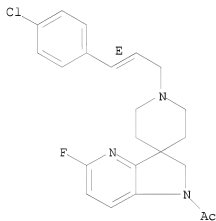
10/581,176



RN 857730-25-7 CAPLUS

CN Ethanone, 1-[1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-5'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

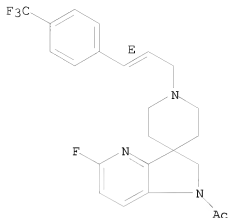


RN 857730-26-8 CAPLUS

CN Ethanone, 1-[5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin-1'-yl]- (CA INDEX NAME)

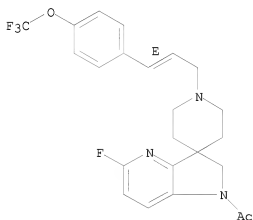
Double bond geometry as shown.

10/581,176



RN 857730-27-9 CAPLUS  
CN Ethanone, 1-[5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

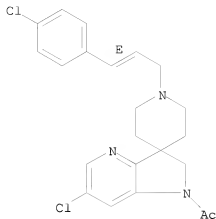
Double bond geometry as shown.



RN 857730-28-0 CAPLUS  
CN Ethanone, 1-[6'-chloro-1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

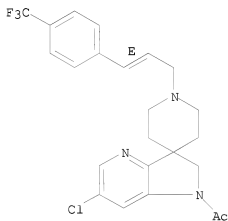
10/581,176



RN 857730-29-1 CAPLUS

CN Ethanone, 1-[6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

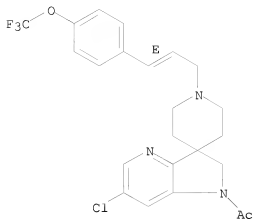


RN 857730-30-4 CAPLUS

CN Ethanone, 1-[6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

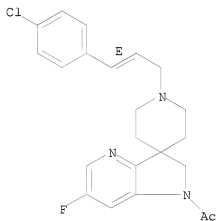
10/581,176



RN 857730-31-5 CAPLUS

CN Ethanone, 1-[1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-6'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

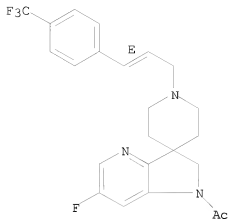


RN 857730-32-6 CAPLUS

CN Ethanone, 1-[6'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

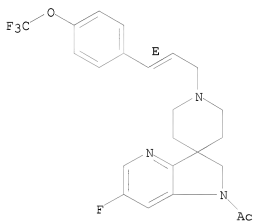
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RN 857730-33-7 CAPLUS

CN Ethanone, 1-[6'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

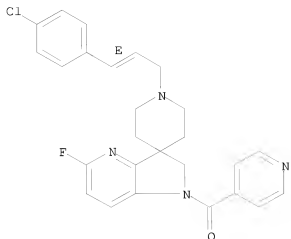


RN 857730-34-8 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-5'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]-4-pyridinyl- (CA INDEX NAME)

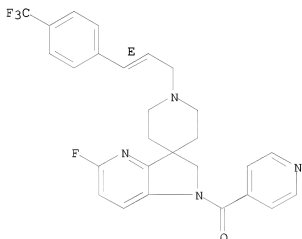
Double bond geometry as shown.

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RN 857730-35-9 CAPLUS  
CN Methanone, [5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]-4-pyridinyl- (CA INDEX NAME)

Double bond geometry as shown.

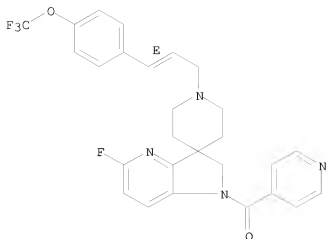


RN 857730-36-0 CAPLUS  
CN Methanone, [5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]-4-pyridinyl- (CA INDEX NAME)

Double bond geometry as shown.



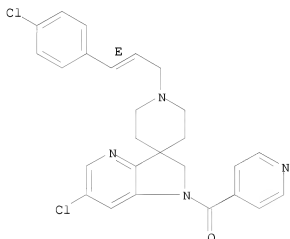
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RN 857730-37-1 CAPLUS

CN Methanone, [6'-chloro-1'-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]-4-pyridinyl- (CA INDEX NAME)

Double bond geometry as shown.

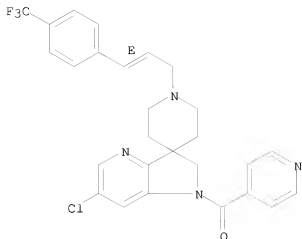


RN 857730-38-2 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1'-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]-4-pyridinyl- (CA INDEX NAME)

Double bond geometry as shown.

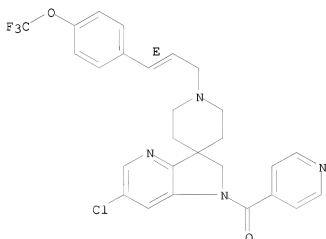
10/581,176



RN 857730-39-3 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]-4-pyridinyl- (CA INDEX NAME)

Double bond geometry as shown.

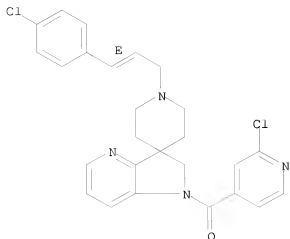


RN 857730-40-6 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

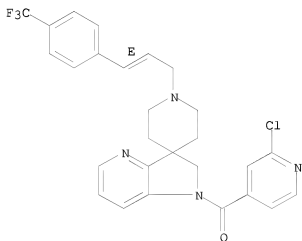
10/581,176



RN 857730-41-7 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl)[1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

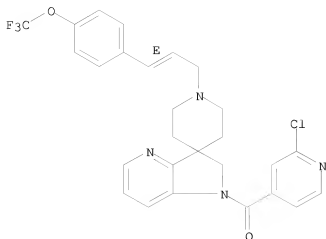


RN 857730-42-8 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl)[1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

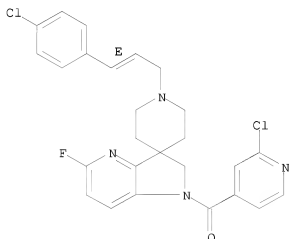
10/581,176



RN 857730-43-9 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-5'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

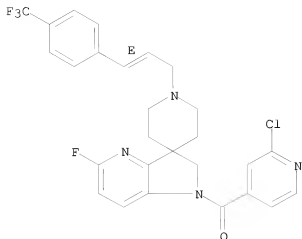


RN 857730-44-0 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl)[5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

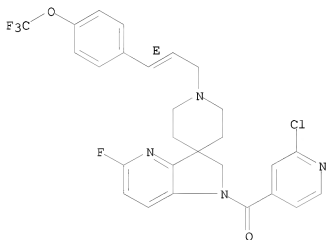
10/581,176



RN 857730-45-1 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl) [5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

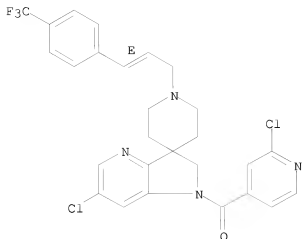


RN 857730-46-2 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl] (2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

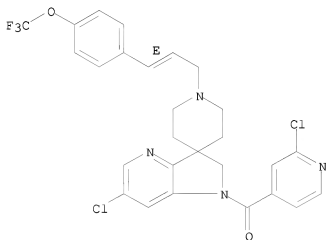
10/581,176



RN 857730-47-3 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

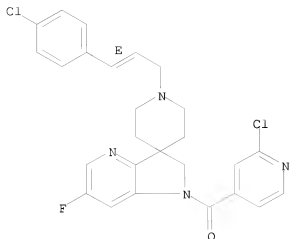


RN 857730-48-4 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-6'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

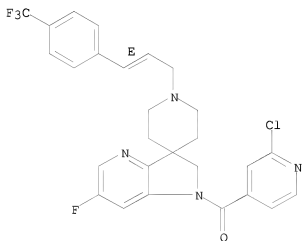
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RN 857730-49-5 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl)[6'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

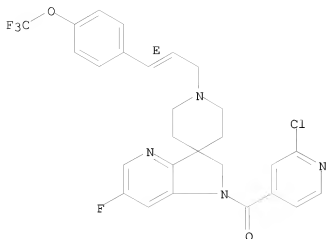


RN 857730-50-8 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl)[6'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

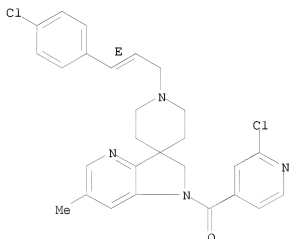
10/581,176



RN 857730-51-9 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydro-6'-methylspiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl] (2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.



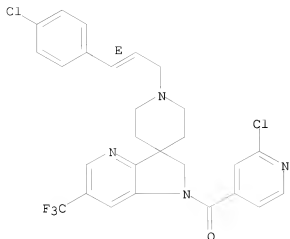
RN 857730-52-0 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydro-6'-(trifluoromethyl)spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl] (2-chloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.



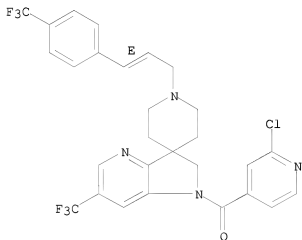
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RN 857730-53-1 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl)[1',2'-dihydro-6'-(trifluoromethyl)-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

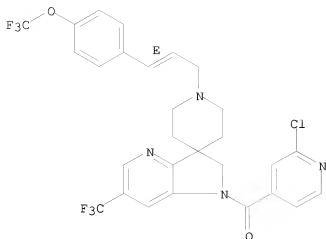


RN 857730-54-2 CAPLUS

CN Methanone, (2-chloro-4-pyridinyl)[1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]-6'-(trifluoromethyl)spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

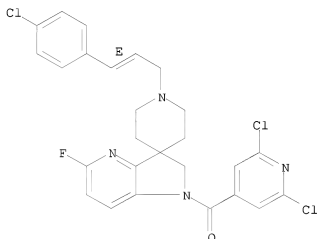
10/581,176



RN 857730-55-3 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-5'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

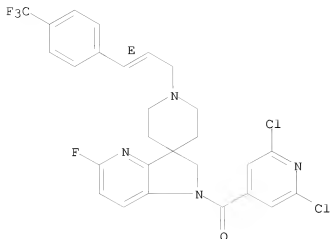


RN 857730-56-4 CAPLUS

CN Methanone, (2,6-dichloro-4-pyridinyl)[5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

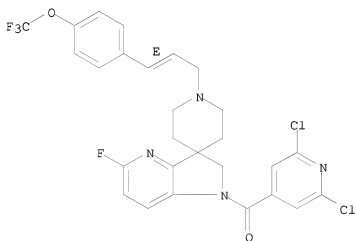
10/581,176



RN 857730-57-5 CAPLUS

CN Methanone, (2,6-dichloro-4-pyridinyl) [5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

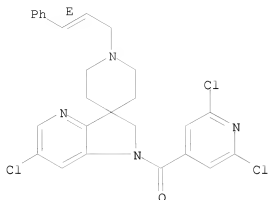
Double bond geometry as shown.



RN 857730-58-6 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1-[(2E)-3-phenyl-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl] (2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)

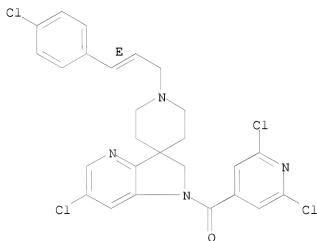
Double bond geometry as shown.



RN 857730-59-7 CAPLUS

CN Methanone, [6'-chloro-1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl] (2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

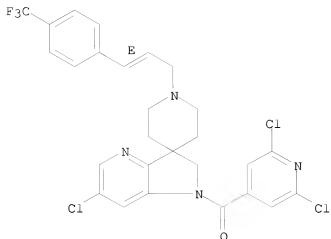


RN 857730-60-0 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl] (2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

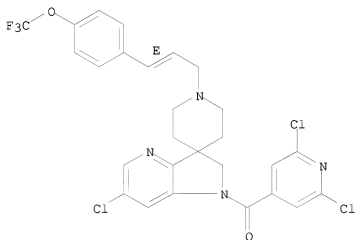
10/581,176



RN 857730-61-1 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

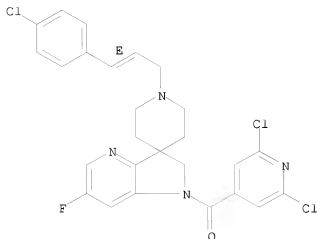


RN 857730-62-2 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-6'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

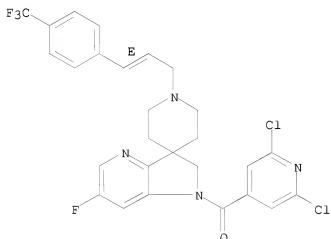
10/581,176



RN 857730-63-3 CAPLUS

CN Methanone, (2,6-dichloro-4-pyridinyl) [6'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

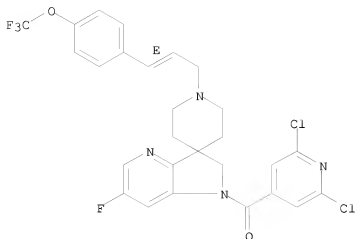


RN 857730-64-4 CAPLUS

CN Methanone, (2,6-dichloro-4-pyridinyl) [6'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl]- (CA INDEX NAME)

Double bond geometry as shown.

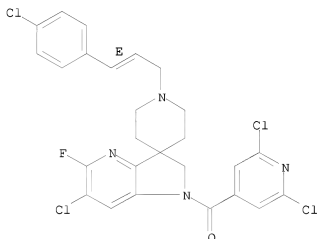
10/581,176



RN 857730-65-5 CAPLUS

CN Methanone, [6'-chloro-1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-5'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2,6-dichloro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

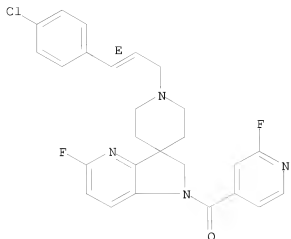


RN 857730-66-6 CAPLUS

CN Methanone, [1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-5'-fluoro-1',2'-dihydrospiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-fluoro-4-pyridinyl)- (CA INDEX NAME)

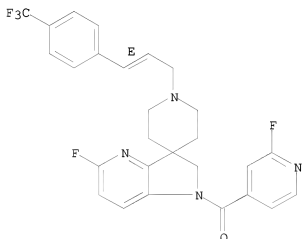
Double bond geometry as shown.

10/581,176



RN 857730-67-7 CAPLUS  
 CN Methanone, [5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-fluoro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

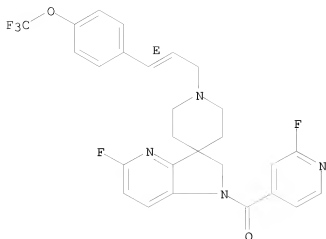


RN 857730-68-8 CAPLUS  
 CN Methanone, [5'-fluoro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-fluoro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.



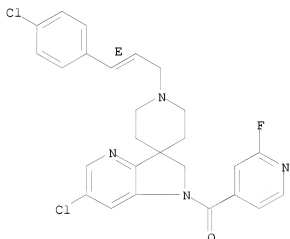
10/581,176



RN 857730-69-9 CAPLUS

CN Methanone, [6'-chloro-1'-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1',2'-dihydrospiro[piperidine-4,3'-(3H)pyrrolo[3,2-b]pyridin]-1'-yl](2-fluoro-4-pyridinyl)- (CA INDEX NAME)

Double bond geometry as shown.

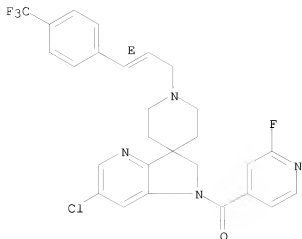


RN 857730-70-2 CAPLUS

CN Methanone, [6'-chloro-1',2'-dihydro-1'-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-(3H)pyrrolo[3,2-b]pyridin]-1'-yl](2-fluoro-4-pyridinyl)- (CA INDEX NAME)

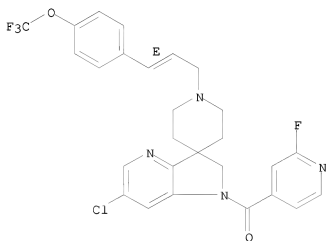
Double bond geometry as shown.

10/581,176



RN 857730-71-3 CAPLUS  
 CN Methanone, [6'-chloro-1',2'-dihydro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridin]-1'-yl](2-fluoro-4-pyridinyl)- (CA INDEX NAME)

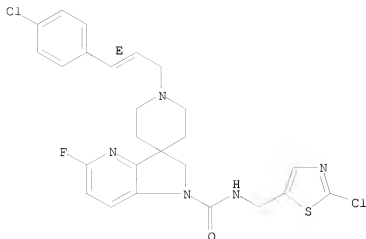
Double bond geometry as shown.



RN 857730-72-4 CAPLUS  
 CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1'(2'H)-carboxamide, 1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-N-[(2-chloro-5-thiazolyl)methyl]-5'-fluoro- (CA INDEX NAME)

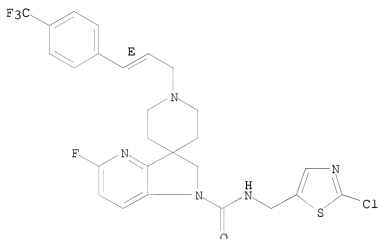
Double bond geometry as shown.

10/581,176



RN 857730-73-5 CAPLUS  
CN Spiro[piperidine-4,3'-(3H)pyrrolo[3,2-b]pyridine]-1' (2'H)-carboxamide,  
N-[(2-chloro-5-thiazolyl)methyl]-5'-fluoro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]- (CA INDEX NAME)

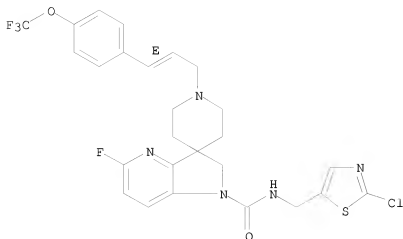
Double bond geometry as shown.



RN 857730-74-6 CAPLUS  
CN Spiro[piperidine-4,3'-(3H)pyrrolo[3,2-b]pyridine]-1' (2'H)-carboxamide,  
N-[(2-chloro-5-thiazolyl)methyl]-5'-fluoro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]- (CA INDEX NAME)

Double bond geometry as shown.

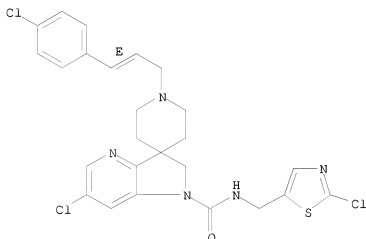
10/581,176



RN 857730-75-7 CAPLUS

CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1'-(2'H)-carboxamide,  
6'-chloro-1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-N-[(2-chloro-5-  
thiazolyl)methyl]- (CA INDEX NAME)

Double bond geometry as shown.

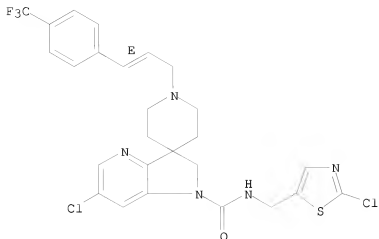


RN 857730-76-8 CAPLUS

CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1'-(2'H)-carboxamide,  
6'-chloro-N-[(2-chloro-5-thiazolyl)methyl]-1-[(2E)-3-[4-  
(trifluoromethyl)phenyl]-2-propen-1-yl]- (CA INDEX NAME)

Double bond geometry as shown.

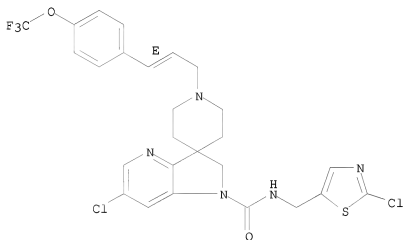
10/581,176



RN 857730-77-9 CAPLUS

CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1' (2'H)-carboxamide,  
6'-chloro-N-[(2-chloro-5-thiazolyl)methyl]-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]- (CA INDEX NAME)

Double bond geometry as shown.

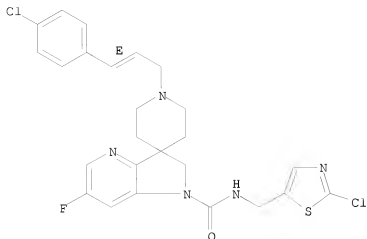


RN 857730-78-0 CAPLUS

CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1' (2'H)-carboxamide,  
1-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-N-[(2-chloro-5-thiazolyl)methyl]-  
6'-fluoro- (CA INDEX NAME)

Double bond geometry as shown.

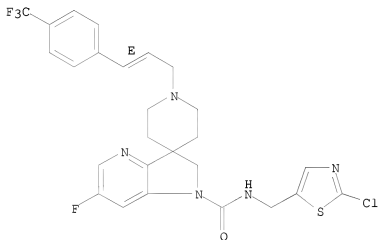
10/581,176



RN 857730-79-1 CAPLUS

CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1' (2'H)-carboxamide,  
N-[(2-chloro-5-thiazolyl)methyl]-6'-fluoro-1-[(2E)-3-[4-(trifluoromethyl)phenyl]-2-propen-1-yl]- (CA INDEX NAME)

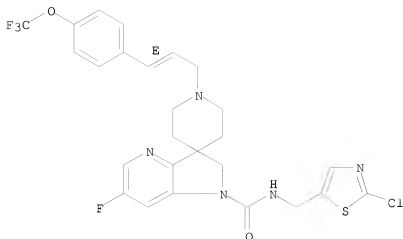
Double bond geometry as shown.



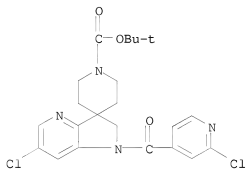
RN 857730-80-4 CAPLUS

CN Spiro[piperidine-4,3'-[3H]pyrrolo[3,2-b]pyridine]-1' (2'H)-carboxamide,  
N-[(2-chloro-5-thiazolyl)methyl]-6'-fluoro-1-[(2E)-3-[4-(trifluoromethoxy)phenyl]-2-propen-1-yl]- (CA INDEX NAME)

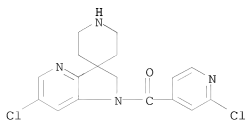
Double bond geometry as shown.



IT 857730-16-6P 857730-17-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation of spiropiperidines and related compds. as pesticides)  
 RN 857730-16-6 CAPLUS  
 CN Spiro[piperidine-4,3'-(3H)pyrrolo[3,2-b]pyridine]-1-carboxylic acid,  
 6'-chloro-1'-[(2-chloro-4-pyridinyl)carbonyl]-1',2'-dihydro-,  
 1,1-dimethylethyl ester (CA INDEX NAME)



RN 857730-17-7 CAPLUS  
 CN Methanone, (6'-chloro-1',2'-dihydrospiro[piperidine-4,3'-(3H)pyrrolo[3,2-  
 b]pyridin]-1'-yl) (2-chloro-4-pyridinyl)- (CA INDEX NAME)



## RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2001:63997 CAPLUS  
 DOCUMENT NUMBER: 134:115863  
 TITLE: Preparation of spirooxindole derivatives as analgesics  
 INVENTOR(S): Berge, Odd-Geir; Claesson, Alf; Swahn, Britt-Marie  
 PATENT ASSIGNEE(S): Astrazeneca AB, Swed.  
 SOURCE: PCT Int. Appl., 87 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

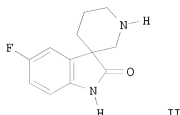
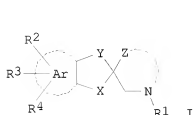
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001005790	A1	20010125	WO 2000-SE1506	20000720
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2378202	A1	20010125	CA 2000-2378202	20000720
AU 2000063309	A	20010205	AU 2000-63309	20000720
AU 775426	B2	20040729		
BR 2000012590	A	20020409	BR 2000-12590	20000720
EP 1202994	A1	20020508	EP 2000-950173	20000720
EP 1202994	B1	20040414		
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TR 2002000118	T2	20021223	TR 2002-118	20000720
JP 2003505388	T	20030212	JP 2001-511449	20000720
EE 2002000033	A	20030217	EE 2002-33	20000720
HU 2002003548	A2	20030228	HU 2002-3548	20000720
HU 2002003548	A3	20030428		
AT 264330	T	20040415	AT 2000-950173	20000720
EP 1426375	A2	20040609	EP 2004-2774	20000720
EP 1426375	A3	20041215		
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NZ 516452	A	20040625	NZ 2000-516452	20000720
PT 1202994	E	20040831	PT 2000-950173	20000720
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US 6774132	B1	20040810	US 2000-674373	20001027
ZA 2001010488	A	20030320	ZA 2001-10488	20011220
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NO 2002000283	A	20020313	NO 2002-283	20020118
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US 20040087800	A1	20040506	US 2003-693444	20031027
PRIORITY APPLN. INFO.:			SE 1999-2762	A 19990721
			SE 2000-263	A 20000127
			EP 2000-950173	A3 20000720
			WO 2000-SE1506	W 20000720
			US 2000-674373	A1 20001027

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT



OTHER SOURCE(S):  
GI

MARPAT 134:115863



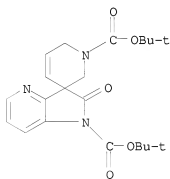
AB The title compds. [I; R1 = H, alkyl, alkoxyalkyl, etc.; R2 = H, alkyl, alkynyl, etc.; R3 = H, alkyl, halo, etc.; R4 = H, alkyl, halo; R2 and R3 may together with the carbon atoms to which they are attached form (un)saturated (un)substituted ring, optionally containing one or more further heteroatoms; Ar = benzene, pyridine, thiophene, etc.; X = NHCO, CONH, NHSO2, etc.; Y = CH2, CH(alkyl), C(alkyl)2, a single bond; Z = (CH2)3, (CH2)4, CH:CHCH2, etc.] and their pharmaceutically acceptable salts which exhibit good analgesic properties and are particularly effective in the treatment of chronic pain, were prepared. E.g., a multi-step synthesis of the title compound II.HCl was given. The compds. I showed analgesic activity in various in vivo expts.

IT 320774-04-7P 320774-05-8P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of spirooxindole derivs. as analgesics)

RN 320774-04-7 CAPLUS

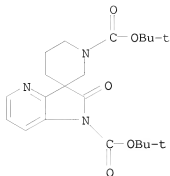
CN Spiro[pyridine-3(2H),3'-(3H)pyrrolo[3,2-b]pyridine]-1,1'(2'H,6H)-dicarboxylic acid, 2'-oxo-, 1,1'-bis(1,1-dimethylethyl) ester (CA INDEX NAME)



RN 320774-05-8 CAPLUS

CN Spiro[piperidine-3,3'-(3H)pyrrolo[3,2-b]pyridine]-1,1'(2'H)-dicarboxylic acid, 2'-oxo-, 1,1'-bis(1,1-dimethylethyl) ester (CA INDEX NAME)

10/581,176



OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD  
(14 CITINGS)  
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 14:34:06 ON 16 DEC 2010)

FILE 'REGISTRY' ENTERED AT 14:34:22 ON 16 DEC 2010

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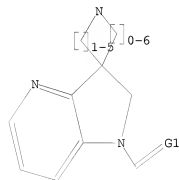
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L4 2 S L3

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=>